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30 October 1964

Attention: Contracting Officer

STATOTHR

Subject:

Gentlemen:

STATOTHR

The above subject contract dated 19 May 1964 calls for one each Variscan Mark II to be delivered on or before September 15, 1964. Our Production Department has informed me that a delay in shipment has occured and the unit is now scheduled for shipment from December 6, 1964.

STATOTHR

The cause for this delay has been the changes and modifications we have made to the Variscan. to improve and increase its quality. The areas of vibration isolation and improvements in the illumination and projection lens systems required the majority of the new materials and machining time.

Our production schedule is now quite firm, and we do not anticipate any further delays.

Very truly yours,

STATOTHR

Business Manager

BCJ:plf

STATOTHR

14 September 1964

MEMORANDUM FOR: Assistant for Plans and Development

THROUGH

: Executive Secretary, Technical Development Committee

SUBJECT

: Change of Scope of "Variscan Rear Projection Film

Viewer" contract 25X1A

#### 25X1A

25X1A

25X1A

1. The NPIC has contracted with for a Variscan Rear Projection Film Viewer for evaluation purposes. Since the contract was negotiated, \_\_\_\_ has offered a variable speed film traversing (across the width of the film) option at an increased if installed prior to delivery.

- 2. The fixed traversing speed of the Richardson Viewers has always been considered an equipment limitation by the operating personnel. On the Variscan the problem will be even more pronounced with a fixed speed than the Richardson Viewers since the Variscan has a greater magnification range.
- The Photo Analysis Group was consulted as to the desirability of having variable traversing speed and officially requested that it be incorporated in the equipment. 25X1A

4. It is, therefore, recommended that Contract with for a Variscan Mark II be modified to include a variable speed on both axes of film movement at an increased bringing the total contract price up to cost of 25X1A 25X1A

Development Branch, P&DS

25X1A

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Excluded from automatic agrading and declassification

25X1A

# CONFIDENTIAL

#### Approved For Release 2001/05/11: CIA-RDP78B04747A001200060001-2



25X1A

PAG/M-846-64 3 September 1964

MEMORANDUM FOR: Chief, Plans and Development Staff, NPIC

ATTENTION:

25X1A

SUBJECT:

Variscan Film Viewer

25X1A

25X1A

Pursuant to discussions held between of Plans and Development Staff and of the Photographic Analysis Group (PAG concerning subject Film Viewer, PAG requests that a variable speed drive across width of film as well as length capability be added to the evaluation model to be procured by NPIC.

25X1A

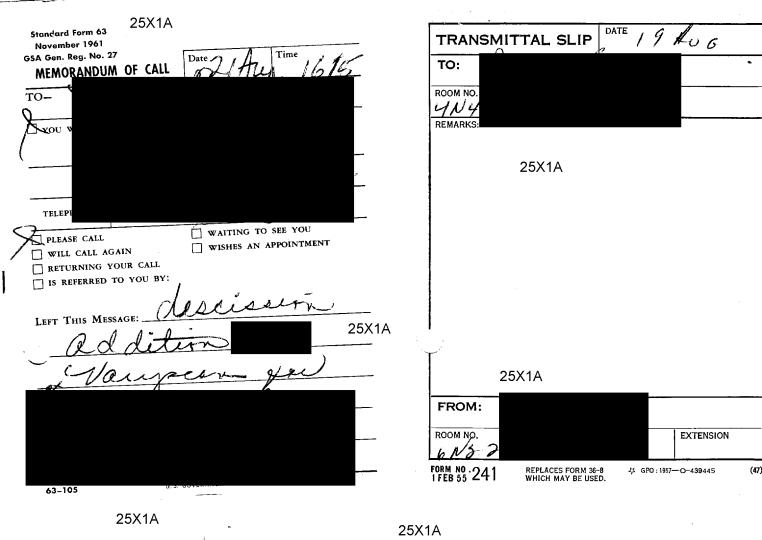
Colonel, USA

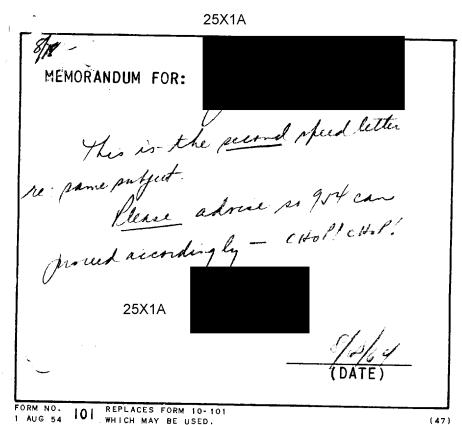
Assistant for Photographic Analysis Group, NPIC

Approved For Release 2001/05/11 : CIA-RDP78B04747A001200060001-2

GROUP 1 Excluded from automatic dewagrading and

# Approved For Release 260 1/05/11 : CIA-RDP78B04747A001200990001-2 SECRET (When Filled In) REPLY REQUESTED SPEED LETTER 25X1A LETTER NO. NPIC FROM: ATTN: Rogn 5500-2>67-64 Please Imend vont make the total amount See allehed copy 25X1A 25X1A Re: Contract No. Will 25X1A DATE REPLY 25X1A Cuil SIGNATURE RESPONDER'S FILE FORM 1831 SECRET





SPEED LETTER 25X1A WPIC TO : ATTN: Pegn # 5500-2767-64 Ven# 64-5790 25X1A Subject voucher was fer Remired work of controller stallition + addition of variable Annual Subject Vont Proport 25X1A REPLY WAS TO THE REPLY RETURN TO ORIGINATOR 708H 1831 SECRET

Approved For Release 2001/05/11 : CIA-RDP78B04 STATOTHR

25 June 1964

1N 584

Attention: Contracting Office

**STATOTHR** 

Reference:

Gentlemen:

Attached are the signed copies of the above referenced contract.

It has been brought to our attention by your technical representative that the Variscan Mark II requested should contain variable speed on both axes. Our standard production model which we quoted to you has variable speed on only one axis. The addition of variable speed on the second or lateral axis is a standard addition and is priced at when installed at the time of manufacture. We are proceeding on this order and are requesting a modification in the amount of to provide the variable speed.

STATOTHR

STATOTHR

Very truly yours,

**STATOTHR** 

BCJ: Ihf

Enclosures

bcc:

STATOTHR

### Approved For Release 2001/05/11 : CIA-RDP78B04747A001200060001-2 VARISCAN CAPTIONS

### Picture 1 STATOTHR

The new Variscan - a versatile instrument for photointerpretation.

#### Picture 2

The Variscan control panel has a joystick for 2-axis image movement; image rotation control; pushbutton magnification changing from 3X to 30X; continuously variable intensity; and a clip-board writing area for notes and records.

#### Picture 3

At the rear of the instrument, a variable-width film transport holds and drives films from 35mm to 9 1/2 inches in width. The lateral motion control carries the entire transport in the "across-the-film" direction.

#### Picture 4

This multiple-exposure photograph shows the film transport and lateral stage rotating about the optical axis (vertical) to turn the image on the viewing screen.

#### Picture 5

A 4-lens assembly switches in projection lenses for 3X, 6X, 12X and 30X viewing. The 12X lens is in position over the vacuum platen. Above it, in order, are 30X, 6X and 3X.

#### Picture 6

In this time exposure, the 12X lens is swinging up and back as the 6X lens comes down into viewing position.

#### Picture 7

In the base of the Variscan are the air-cooled lamp housing and condenser elements-shown here set for 6X. A front-surface mirror (at right) directs light upward through the platen.

#### Picture 8

When magnification is changed, the appropriate condenser elements slide into position in the light path. Here three intermediate lenses concentrate the light for 30X viewing.

#### Picture 9

At 3X, the operator can view and scan an entire 9 1/2" x 9 1/2" frame of aerial film.

#### Picture 10

The operator switches to 6X and centers an area of interest.

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#### Picture 11

The same view at 12X - intensity, position and rotation controls help the operator establish optimum viewing conditions.

#### Picture 12

At 30X the full detail in the photograph is visible, with a resolution of 180 lines per millimeter on the film.

6 July 1964

#### STATOTHR

Enclosed are the installation sheets you requested we provide for the Variscan.

Should there be any further information you require, please do not hesitate to ask.

Very truly yours,

STATOTHR

WHM:plf

#### INSTALLATION ENGINEERING

I.	INST	RUMENT		STA	ATOTHR	•	
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	Direct connection to instrument:  If yes to above, what is the desi	ired air temper	rature to instrument?
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C.	Plumbing: Is water required for the instrum Water pressure N.A.  Type of water desired:  Tap N.A. OF +  Tempered N.A. OF +  Deionized N.A. OF +  unit volume.  Type of pipe required: Galvanized N.A.  Stainless Steel N.A.  Is floor drain required? Diameter of drain N.A.  Plastic drain N.A.	Flow in OF OF OF Par  Copper Plastic Yes Galvanized	No X  ticle size and count per  No X  drain N.A.
D.	Compressed Air: Diameter of connectors N.A. PSI N.A. CFM N.A.	Water free	nnectors N.A. N.A. N.A.
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#### IV. REMARKS

In the event additional space is required for environmental conditions or utilities not mentioned above, use the reverse side of this form.

**ILLEGIB** 

Appr

e 2001/05/11 : CIA-RDP78B04747A001200060001-2

Post Office Box 6768 Port Davis Station Washington, D.C.

REGISTERED

Special Resolution Tage to

25X1A

Amendment No. 1 (Nevised)

#### Gentlemen:

Reference is made to your letter of July 15, 1966 regarding the incorporation of final overhead and G & A rates in Subject Contract.

The Contracting Officer concurs with your recommendation that this contract be settled by your retention of the property purchased under the terms of this Contract. In response to this you will secept overhead end 0 & A rates lower than those proposed to DCAA.

Accordingly and subject to your acceptance in the space provided below, the captioned Contract is hereby amended pursuant to Article Six (6), Paragraph (d) to incorporate therein final overhead rates for the periods specified below:

### For the Period 1 April 1964 through 31 March 1965

Engineering Overtead

10.0% of direct labor dollars exclusive of overtime presion

G & A expense

5.9% of cost of sales

### For the Period 1 April 1965 through 30 September 1965

Engineering Oversedd

33.05

G & A expense

9.76

This material contains information affecting the national defense of the United States Within the meaning of the appleance laws, Title 12, USC, Eacs, 753 and 794, the transmission Excluded trans automatic or revelation of ... domuelegius auq

declassification Approved For Release 2001/05/11: CIA-RDF78B04747A001200060001-2

Approved of the foregoing rates is subject to the provisions of this Contract end any Task Orders issued beremmder which limit, to the amount of a stated estimated cost, the obligation of the Government to reinburse the Contractor for costs incurred.

Please indicate your acceptance of the foregoing by signing this letter and the enclosed two copies thereof. Betain one copy for your records and return the signed original and remaining one copy to the undersigned at the certical practicable date.

Very truly yours,

25X1A	Contracting Officer
25X1A	Duly Authorized Representative
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Next 1 Page(s) In Document Exempt

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OFFICE BUDGET COPY

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ITEM PROTOTYPES			FINAL REPORT	**	***
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YES X NO		B	EVERSE HEREOF. IF KNOWN, IND	ICATE MAGNITUDE	OF AD-
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HAS GOVERNMENT-OWNED PROPERTY (If yes, indicate items, quantity,	and cost	ou teneta	side.)		
(Ir yes, Indicate Items,		INCENT			
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S THIS AN INCENTIVE CONTRACT F YES, CHECK TYPE	YES 🖔		NOTE: USE REVERSE SIDE FOR COMMENTS. FINAL REPORT MUST CONTAIN INCE	ENTIVE EVALUATIO	N.
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### SECRET

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Variable Width Film Readers and Variscan Viewers was reviewed at

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was given a complete

review of the work is doing in the stellar comparator field.

The first six production Varyscans had just been dleivered prior to my visit, and none of the machines under construction were in operating condition, so I was unable to evaluate a working model. The major changes in the production model over the prototype were a completely redesigned cabinet of far greater rigidity, and substitution of a mechanical platen clamp instead of the vacuum platen. This platen differs from the Richardson platens in that both glasses move instead of one and the total opening is 5/8", which allows complete freedom of the film during scanning and slewing. The platens are so adjusted that when closed, they cause a minimum of focus shift. In general, I was impressed with the production engineering results which make the Varyscan production model more functional then the prototype. Delivery of the NPIC Viewer is scheduled for the latter part of October.

As far the Film Reader, there were a number of minor defeciencies which require correction and two major problems areas.

# TAKEN FROM TRIP REPORT Approved For Release 2001/05/12 GIA-RD0788647478601200060001-2

There was considerable vibration of the image as projected on the screen, and the freon was not completely dried from the film when rewound at at high speed. In addition another major problem exists in providing an acceptable toxic vent. I have since been informed that they feel they have solved the vibration problem by reinforcing the cabinet. At present they are still working on solving the film drying and venting problems. It is possible that both of these problems could be solved sys simutaneously if we were willing to accept a higher freen loss.

No film resolution readings or light intensity values were taken due to the vibration and uncomplete optical alignment. The 48x lens presently in the machine was considered unacceptable by and an order a placed for a new lens.

In general, the reader has the highest quality projection image viewed this far by the undersigned. Resolution appeared good as far as could be determined and their was an absolute minimum of color fringing apparent. The liquid gate appeared to function well and their was not apparent flutter of the image. The transport worked well, however, several of the minor correction requested were in the transport controls. The estimated completion date is presently the end of October unless additional problems are encountered in the venting aspect.

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Financially has overrun the contract price. They have been requested to prepare a report to the contracting officer on the actual costs involved and the reason for not reporting at the 80% mark. This should be forthcoming shorthly.

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In addition was given a complete briefing on the work is doing in the stellar comparator and automatic image centering field.

I did not sit in on these discussions so far additional details see

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(When Filled In)

Approved For Release 200		: CIA-RD		6000≤k-2∞.		
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TO:		D	ATE			
			9 Sept. 1964			
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			0ct. 1964			
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To committee of the control of the c		l	P&DS 2	5X1A		
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FORM 1897 USE PREVIOUS EDITION

SECRET (When Filled In)

GROUP 1
Excluded from automatic downgrading and declassification

A recommendation is currently being processed to change the scope of this machine to include a variable speed film drive for film traversing. This will delay delivery until approximately mid-October 1964.

# SECRET (When Filled In)

	<u>//05/11</u> :	CIA-ROP	<b>ዏ፟፞፞ቔ</b> ₿ <mark>₲፟፟፟</mark> 4፟፟፝፞፞፞፞ቝ፝፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞ጞዹፙፙኯፙኯ፟ዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀ	•	Į.	
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			September 1964			
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downgrading and declassification

(When Filled In)

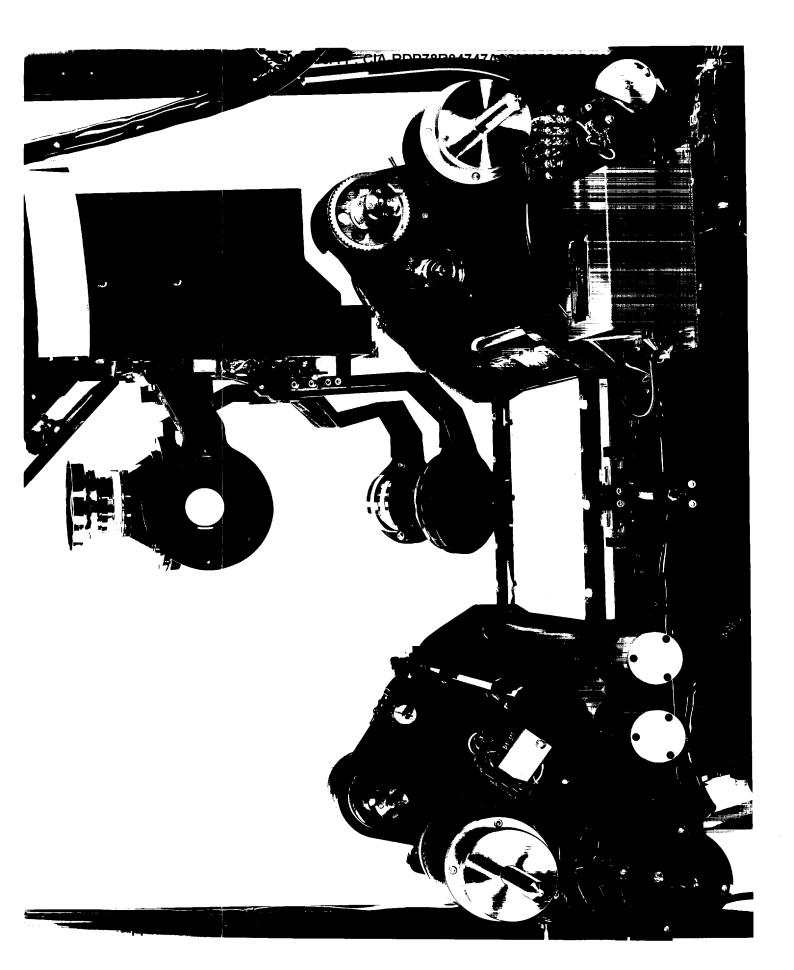
TO :	hief, NPIC DATE:	1 June 1964	
FROM	hief, Engineering Section/CB/PD/OI	25X1A	
SUBJECT:	Inspection Under Contract No	_Task C	rder
	Requisition No.5500-2767-64	Voucher No.	25X1A
25X1A	Contractor:		<b>1</b>
	Ttem: Werwseen Mark TT Rear Project		

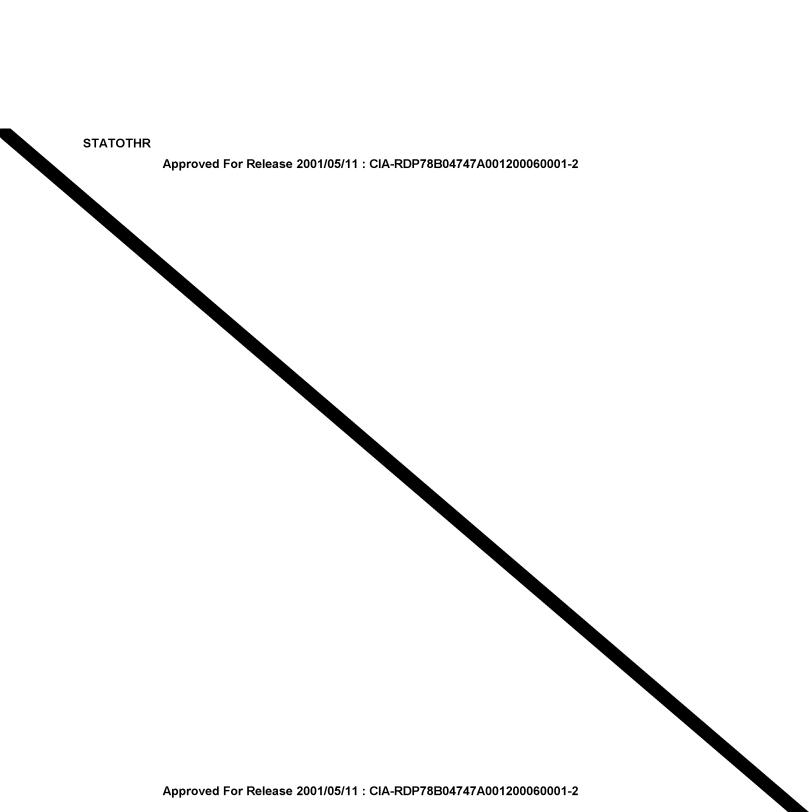
1. Your Office is responsible for performing inspection duties under the subject Contract. As a part of this responsibility, it is requested that you arrange to monitor the Contractor's performance at his facility and determine whether or not the quality standards of the Contract are being met. It is also r quested that you authenticate the need for and proper use of any Government Furnished Property made available to the Contractor in accordance with the Contract.

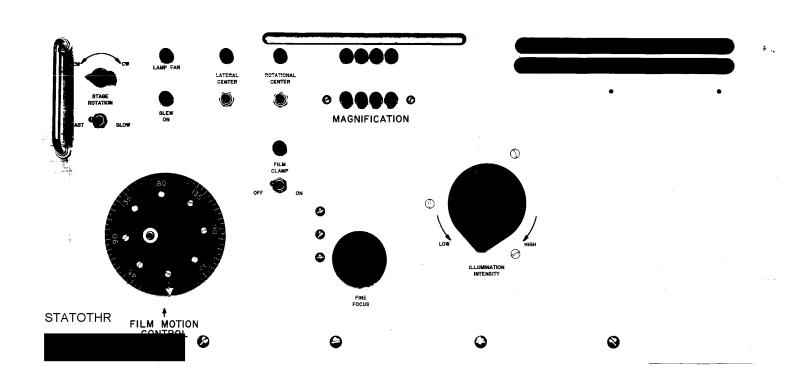
To assist in our evaluation of this Contractor's capability and performance, it is requested that you forward to us a report of each inspection visit to the Contractor's facility. Both the interim reports and the final report should include information relative to the contractual provisions for delivery and expenditure, as well as your judgment of the Contractor's overall performance. The final report should be in narrative form and should include a statement certifying that all deliverable items listed in the contract have been received.

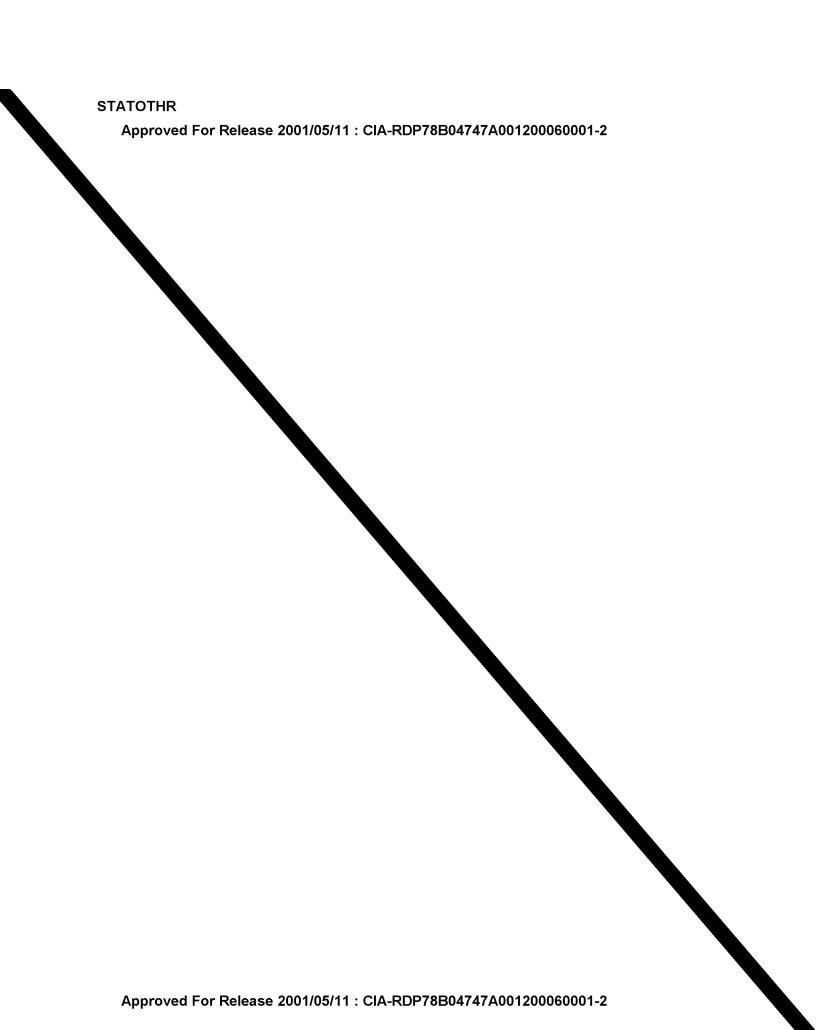
- Reports that indicate overall performance as unsatisfactory or barely adequations should support such evaluations with detailed explanations of the specific discrepancies and the corrective action which is being taken. Reports should be submitted at intervals of no more than sixty (60) days so that reimbursement may be made on the basis of a current evaluation of performance by the Contractor. Inspection Report Form 1897 may be used for interim reports. A narrative report is requested for the final report.
- 4. Unless a current inspection report is available in our files, it will be necessary to withhold paymant on the Contractor's invoices until such time as this deficiency is corrected.
- 5. You are requested to indicate your acceptance of this inspection responsibility by filling in the space below on one copy of this memorandum and returning it to us in Room 1524 Quarters Eye.

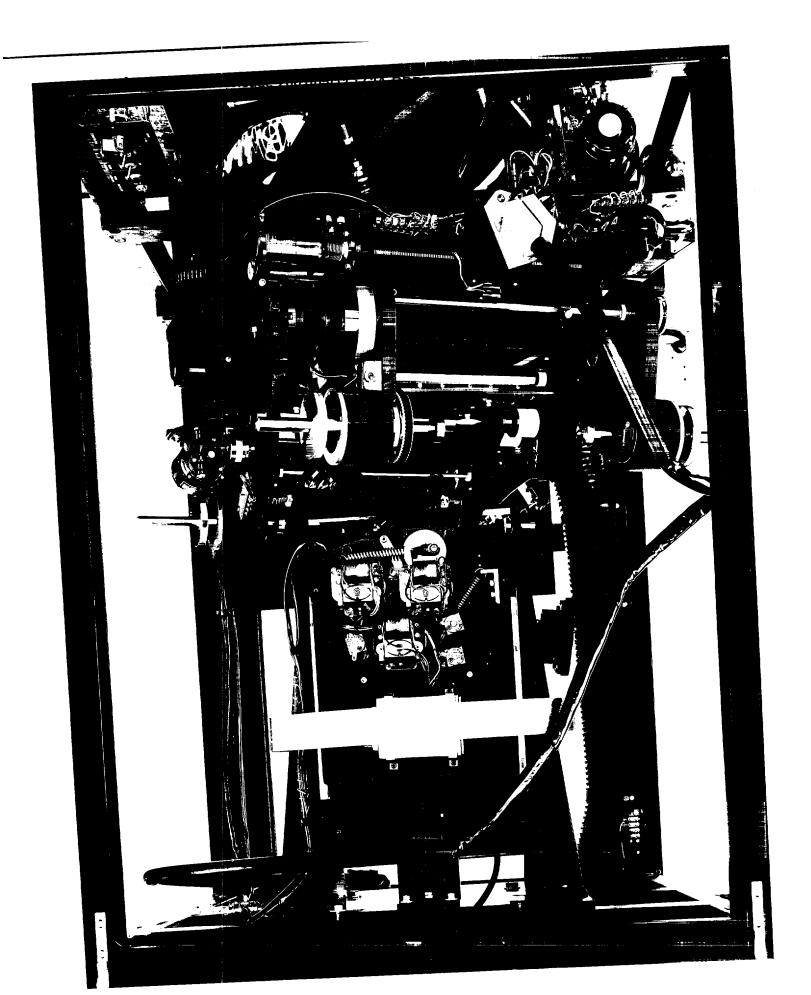
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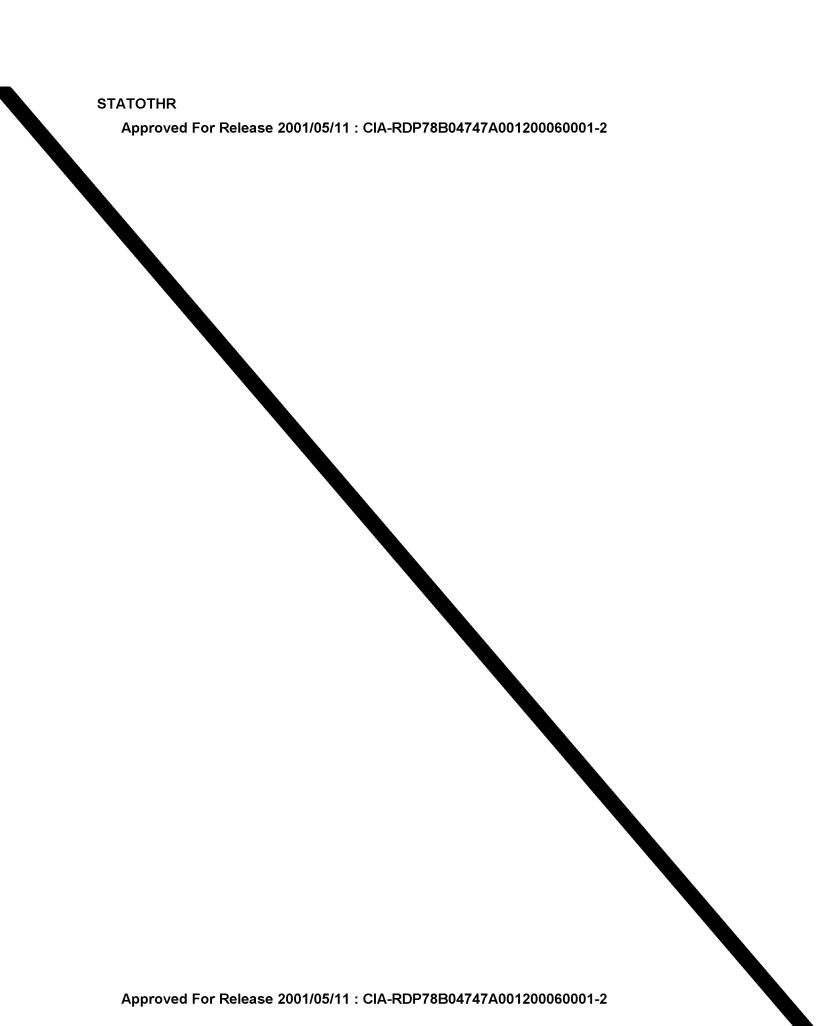




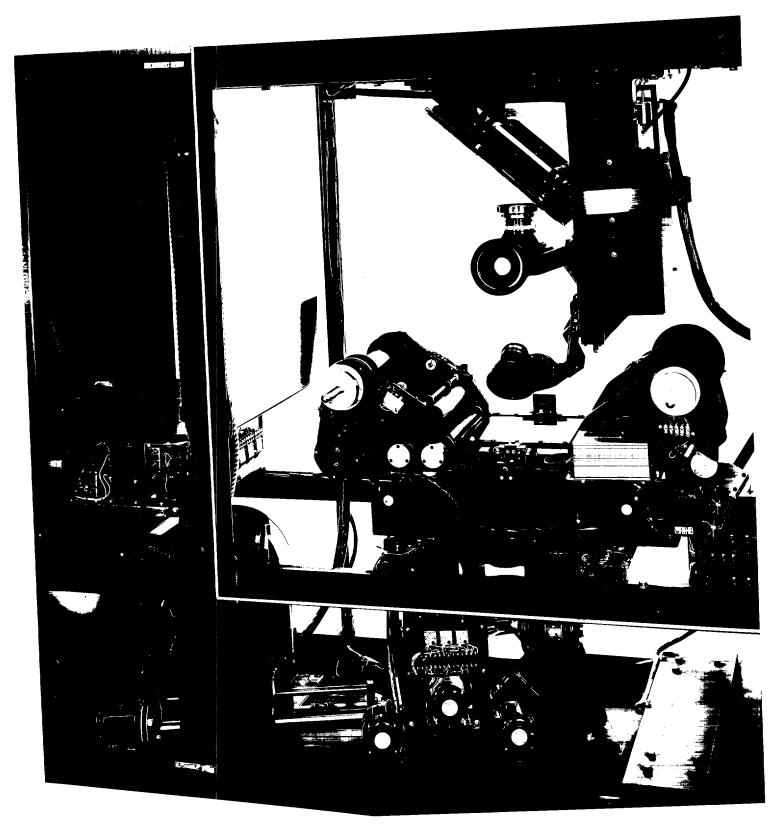




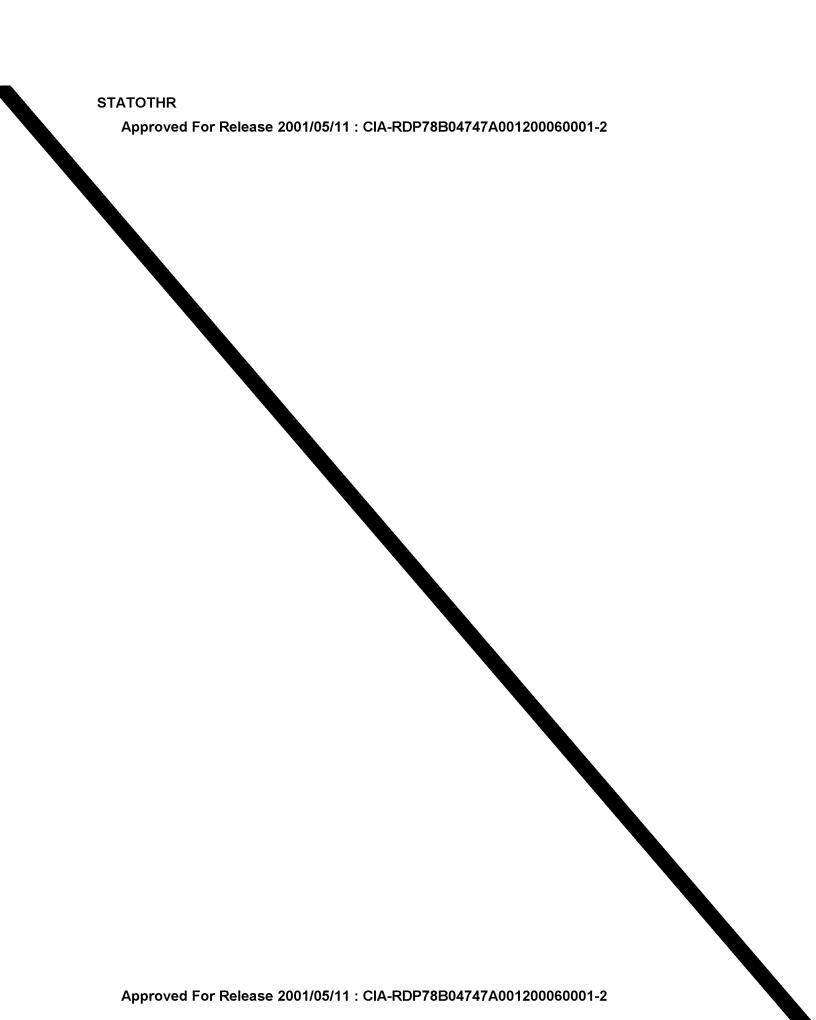


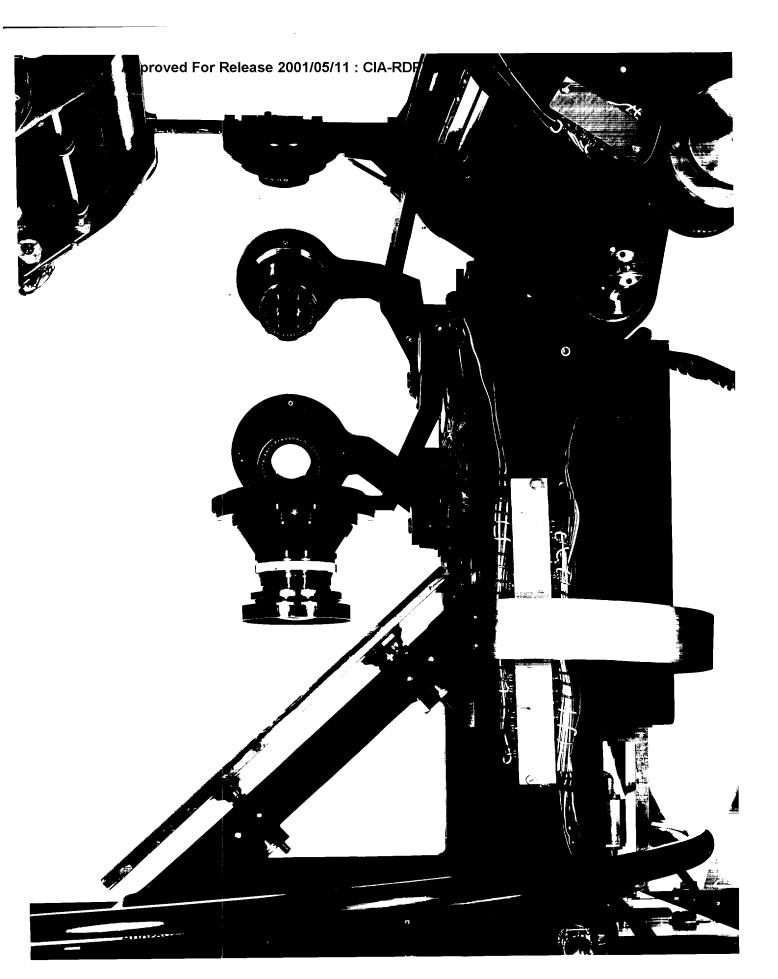


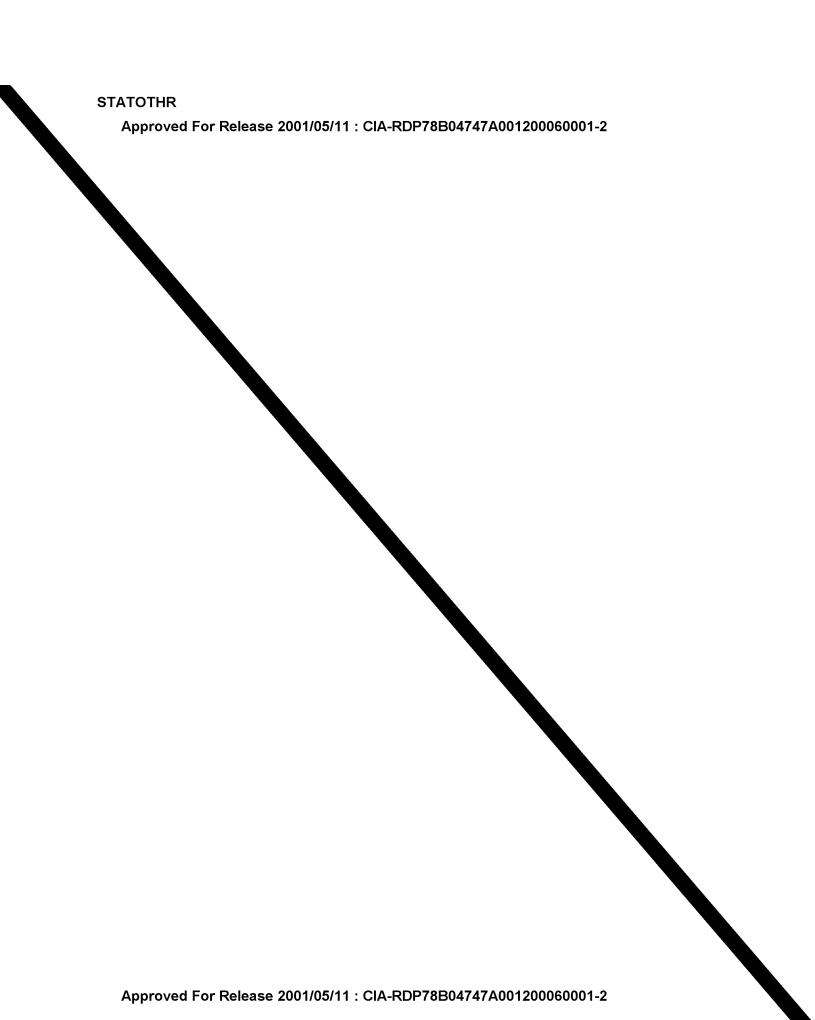
Approved For Release 2001/05/11 : CIA-RDP78B04747A001200060001-2

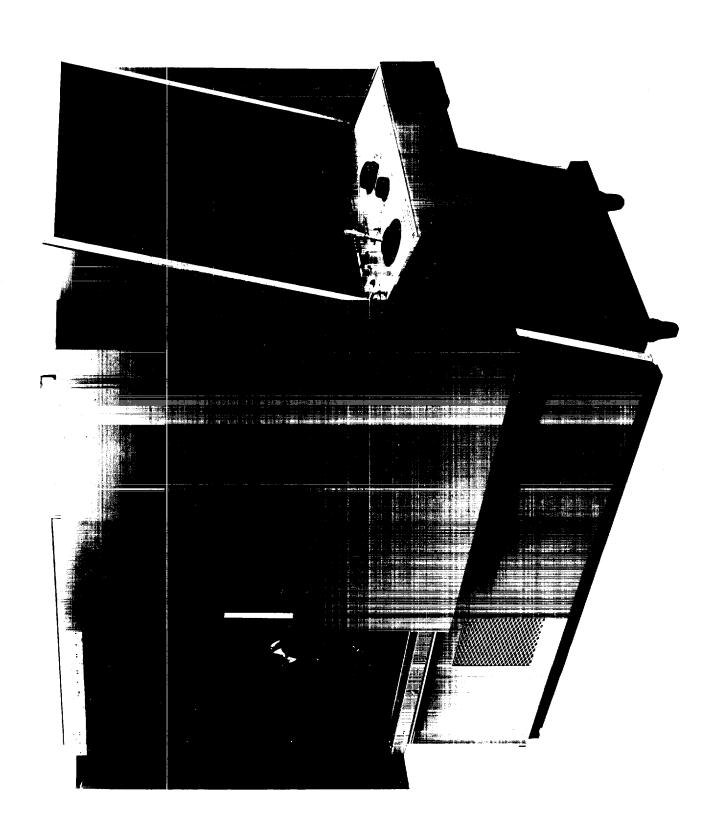


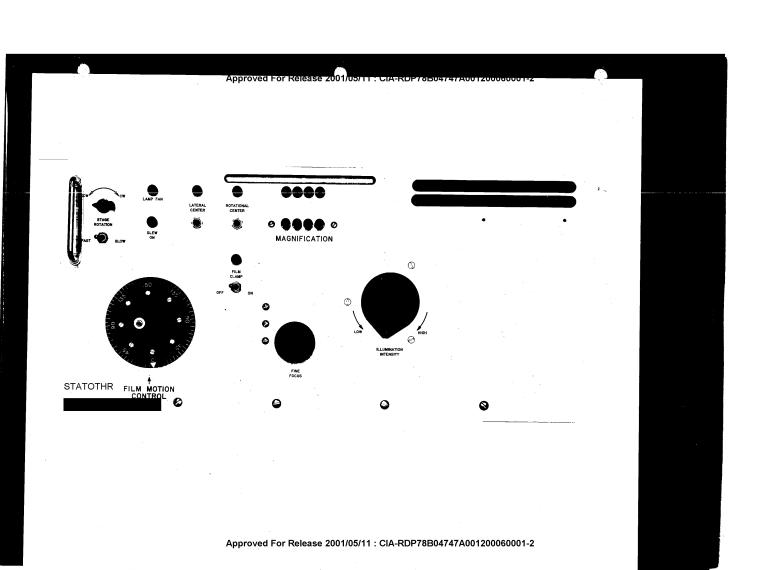
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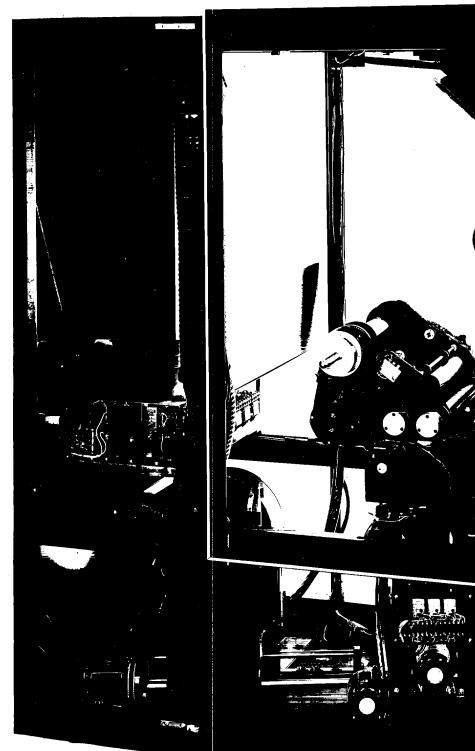


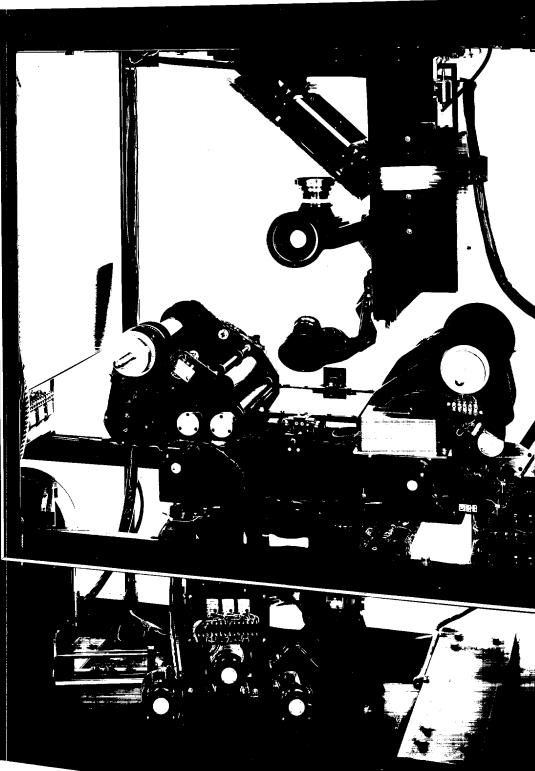


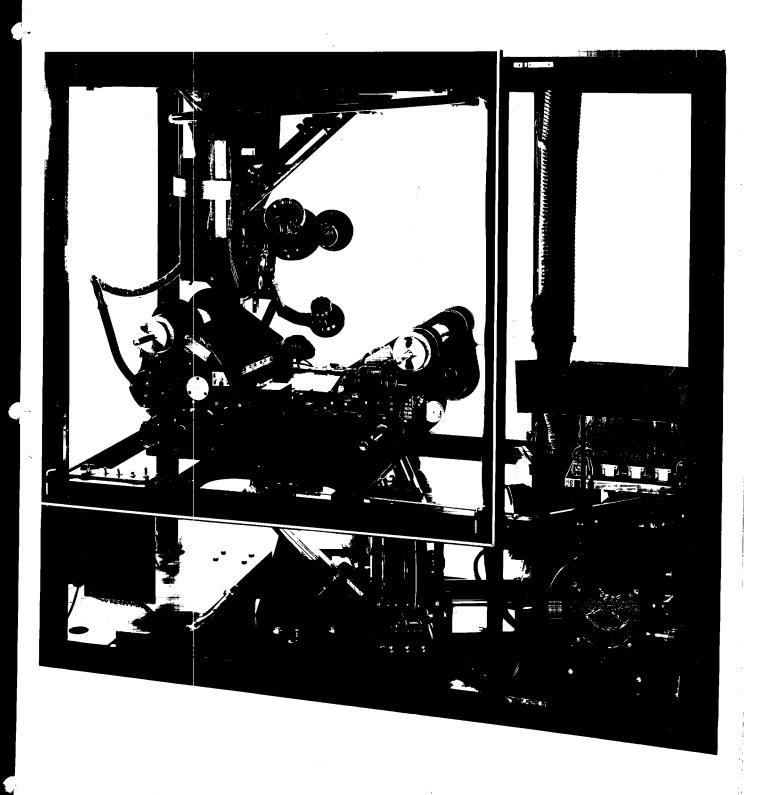


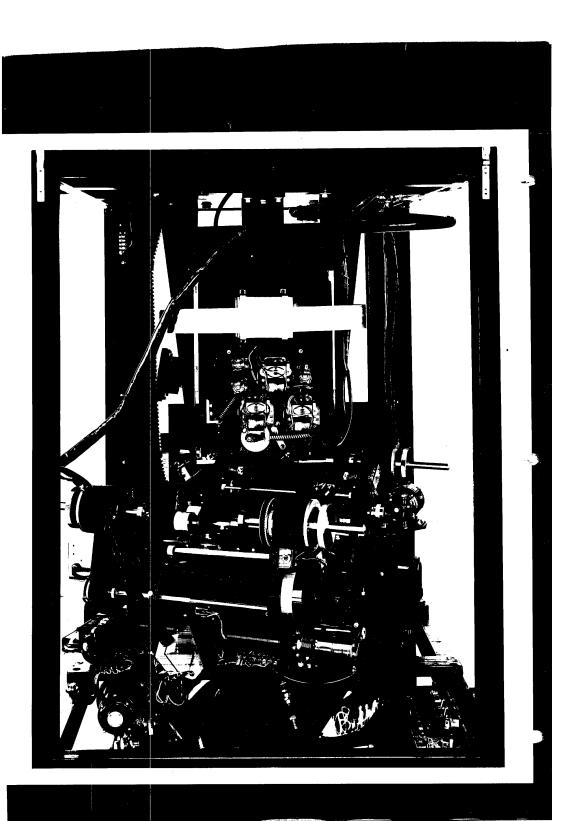


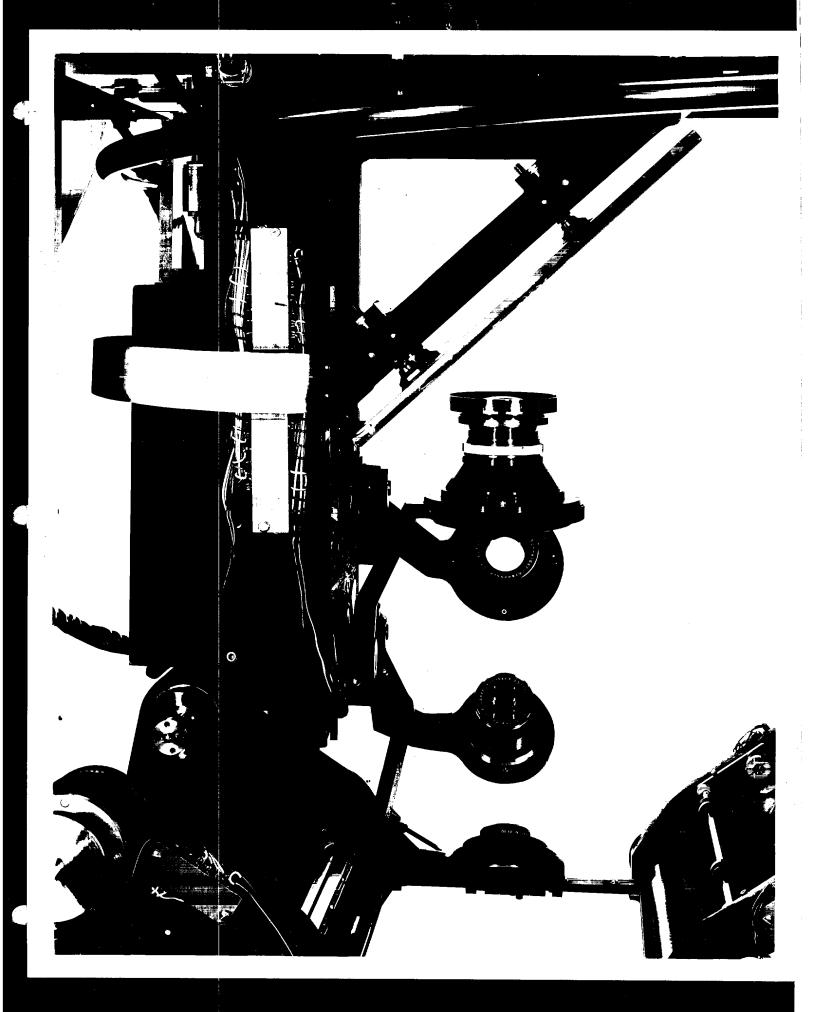


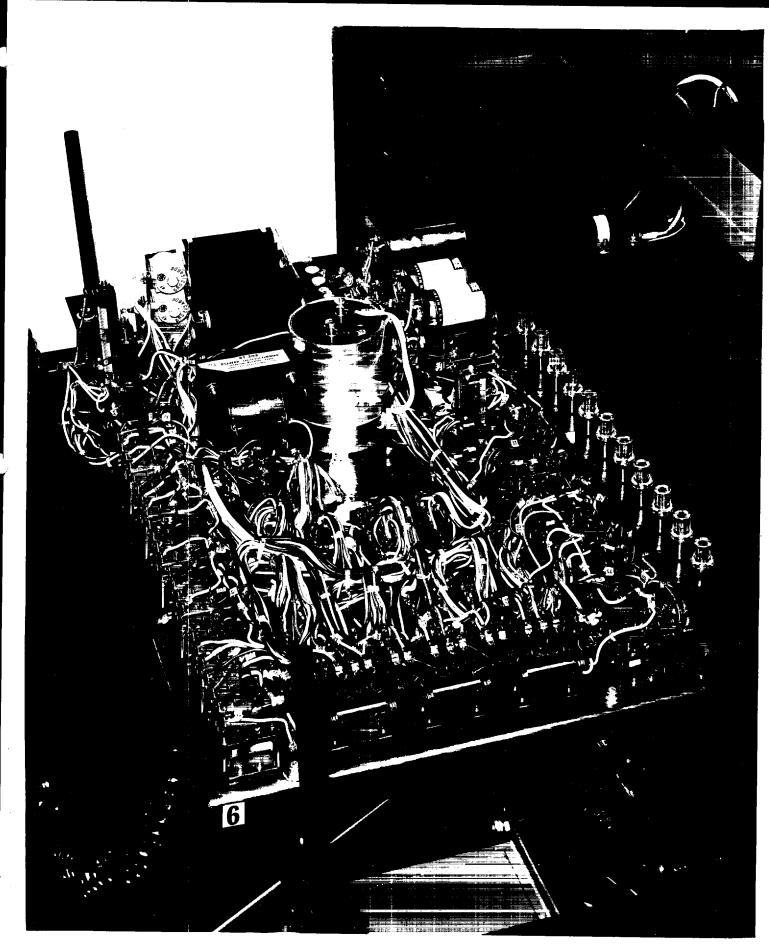












Approved For Polosso 2001/05/11 · CIA-RDP78R04747A001200060001-2

STATOTHR

VARISCAN - MARK II

23 October 1964

MEMORANDAM FOR: Director, MFIC

**SUBJECT:** 

Change of Scope on Variscan Mark II

REFERENCE:

Chief, Administrative Staff, O/DDI, Memorandum dated 4 February 1964: Approval of Research and Development

Activities.

In accordance with the authority delegated by paragraph 3 of the reference, approval is requested for inclusion of a variable speed, filmtraversing option on the Variscan Mark II as outlined in Annex "A". 25X1A This action will increase the cost of contract

25X1A

25X1A

making a new total contract price of 25X1A

25X1A

Assistant for Plans and Development, MPIC

APPROVED:

ARTHUR C. LUNDAHL Director, RPIC

NOV 1964 Date

Attachment:

Annex A

Distribution:

Orig & 1 - LB/SS (1 - OL/PD after signature)

1 - 0/D

2 - P&DS/DB

je:2623(22 October 1964) LB/SS/NPIC

25X1A

6809P 1 Excluded from automatic downgrading and declassification

# CONFIDENTIAL

# Approved For Release 2001/05/11: CIA-RDP78B04747A001200060001-2

14 September 1964

MEMORANDUM FOR: Assistant for Plans and Development

THROUGH

Executive Secretary, Technical Development Committee

SUBJECT

Change of Scope of "Variscan Rear Projection Film

Viewer" contract

25X1A

### 25X1A

1. The NPIC has contracted with for a Variscan Rear Projection Film Viewer for evaluation purposes. Since the contract was negotiated, the has offered a variable speed film traversing (across the width of the film) option at an increased if installed prior to delivery.

25X1A

25X1A

- 2. The fixed traversing speed of the Richardson Viewers has always been considered an equipment limitation by the operating personnel. On the Variscan the problem will be even more pronounced with a fixed speed than the Richardson Viewers since the Variscan has a greater magnification range.
- 3. The Photo Analysis Group was consulted as to the desirability of having variable traversing speed and officially requested that it be incorporated in the equipment.

25X1A

It is, therefore, recommended that Contract with for a Variscan Mark II be modified to include a variable speed on both axes of film movement at an increased cost of bringing the total contract price up to

25X1A

25X1A

25X1A

25X1A

Development Branch, P&DS

CONFIDENTIAL

GROUP I

# CONFIDENTIAL

# Approved For Release 2001/05/11: CIA-RDP78B04747A001200060001-2

14 September 1964

MEMORANDUM FOR: Assistant for Plans and Development

THROUGH : Executive Secretary, Technical Development Committee

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Viewer" contract 25X1A

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25X1A

SUBJECT

25X1A

25X1A

25X1A

25X1A

Development Branch, P&DS

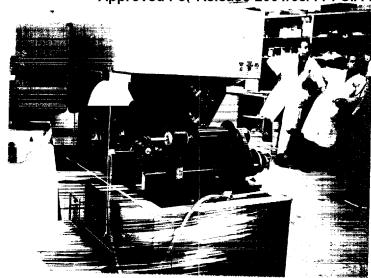
CONFIDENTIAL

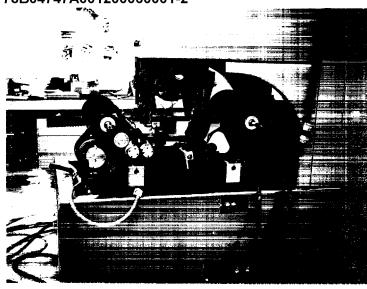
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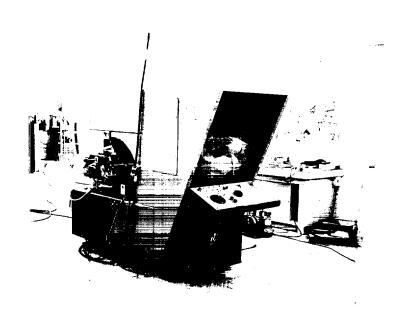
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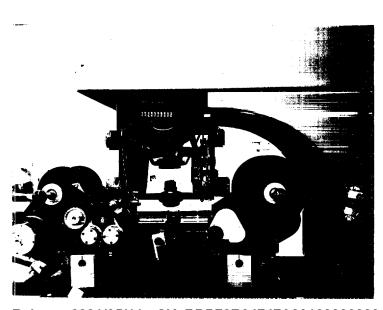
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PICTURES OF VARYSCAN FILM VIEWER









Approved For Release 2001/05/11 : CIA-RDP78B04747A001200060001-2

25X1A

25X1A

MENCRANDUM	FOR: Director,	APIC	
AIV	: Executive	Director, NPIC	25X1A
SUBJECT	: Procurence	nt of a Varyscan Fi	Im Viewer -
REFERENCE	Cated 4 M	ministrative Staff, abruary 1964: Appr at Activities.	O, DD/I, memorandum oval of Research and
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	Assistant	for Plans and Deve	clopment, MPIC
CONCUR;			
25X1	iA		
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Executive Di	rector, MPIC		Date
APPROVED:			
	thur C. Lundahl Lrector, MPIC	rine sy: - <del>philipse deprime del les les ses de</del> les	Date
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# CONFIDENTIAL

## Approved For Release 2001/05/11: CIA-RDP78B04747A001200060001-2

27 April 1964

#### STAFF STUDY

# PROCUREMENT OF A VARYSCAN FILM VIEWER

PROBLEM:

25X1A

25X1A

To obtain on a priority basis a Varyscan Film Viewer from for operational test and evaluation.

FACTS:

25X1A

has developed as an in-house effort a rear projection film viewer that will handle 35 mm through  $9\frac{1}{2}$ " roll film in lengths of up to 1,000 feet with magnifications of 3X, 6X, 12X and 30X on a 30" by 30" screen. At 3X a  $9\frac{1}{2}$ " by  $9\frac{1}{2}$ " image area is projected on the screen.

### DISCUSSION:

The Varyscan was developed in response to requirements by SAC and AMS for a rear projection viewer that could project the entire  $9\frac{1}{2}$  wide format at a minimum of 3 power as well as other magnifications with minimum damage to the film. Except for the 3X projection, the requirements given were identical to the Richardson 707 specifications. The requested 200 foot lambret lighting requirement was not achieved in this instrument due to the considerably higher costs of going to more powerful light sources than the presently available tungsten lamps.

25X1A

25X1A

The prototype viewer was inspected at by the undersigned prior to its being shipped to SAC for demonstration and evaluation. In general, the Varyscan has better film handling and optical qualities than the presently available Richardson Viewers and approximately 20% more screen illumination. The outstanding feature is of course the 3X magnification which has previously never been achieved in an instrument of this type.

25X1A

Presently has a contract for six Varyscans for SAC and a potential of 35 more for SAC and 15 for AMS out of fiscal year 1964 funds. Both the SAC and AMS personnel that have evaluated the Varyscan have indicated that they prefer it over the Richardson 707 design.

CONCLUSION: 25X1A

The Varyscan has better overall performance characteristics than the presently available Richardson Viewers and may be as good or better than the Richardson 707 V under development which will not have the 3X magnification. It would therefore be desirable to obtain one of the Varyscans for evaluation purposes.

# CONFIDENTIAL

GROUP 1
Excluded from automatic
downgrading and declassification

Approved For Release 2001/05/11: CIA-RDP78B04747A001200060001-2

# Approved For Release 200 100 NF/DIA-RD178B04747A001200060001-2

RECOMMENDATIONS:	25X1A	25X1A
25X1A It is recommended that the Varyscan at a cost not to not been determined, it is felt contract should be negotiated a recommended that the contract be any additional orders are consume receive the viewer in time to	that a fixed price rend on an Confidence negotiated with	ee production costs have edeterminable or incentive ential Basis. It is further on a priority basis before is felt necessary so that Richardson 707V prototype.

25X1A Approved Fo

5/11 :JeIA-REP78B04747A001200060001-2

Rev

25X1A

1.

X

4/29/64 5500-2767-64

4155-1030-6000

4155-1030-6000

MPIC

25X1A

Varyscan Rear Projection Film
Viewer with variable speed film
movement on both axies complete
with one instruction maintenance
manual.

23 October 1964

MEMORANDIM FOR: Director, MPIC

SUBJECT:

Change of Scope on Variscan Mark II

REFERENCE:

Chief, Administrative Staff, O/DDI, Memorandum dated

4 February 1964: Approval of Research and Development

Activities.

In accordance with the authority delegated by paragraph 3 of the reference, approval is requested for inclusion of a variable speed, filmtraversing option on the Variscan Mark II as outlined in Ammex "A". This action will increase the cost of contract

25X1A

making a new total contract price of 25X1A Assistant for Plans and Development, MPIC 25X1A NOV 1964 Dete

APPROVED

ARTRUR C. LUMDAML

Mirector, MPIC

Attechment: Annex A

Distribution:

LB/SS/NPIC/

Orig & 1 - LB/SS (1 - OL/PD after signature)

1 - 0/D

2 - P&DS/DB

jc:2623(22 October 1964)

25X1A

Approved For Release 2001/05/[1] CIA-RDP78B04747A001200060001-2

494 1 Excluded from automatic dewn rading and

Tile

SECRET (When Filled In)

# TECHNICAL BACKGROUND PROCUREMENT INFORMATION

Contractor		·	<b>27</b> APR 1964
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	on of previous performan	ce: <u>datisfactory</u>	
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		_ Estimated total	amt.
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varioble	speed film movement on bo	th extes and one in	etruction
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This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION

TELEGRAM

P. MARGHALL, PRESIDENT

OCAL TIME at point of origin. Time of receipt is LOC.

S LEF-1201 (4-80)

SYMBOLS

DL = Day Letter

NL = Night Letter

LT International

The filing time shown in the date line on domestic telegrams

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- 4.3.1 Examination of Product Each sample viewer shall be given a thorough visual and mechanical examination to determine that the quality of all materials and workmanship are in ompliance with the requirements of this specification.
- 4.3.2 <u>Functional Tests</u> Optical & Projection System The follow-ing tests shall be performed under the operational conditions specified by 4.2.1.
- 4.3.2.1 Magnification Test Place a calibrated grid of approximately 0.21 grids in the film gate and apply vacuum clamping. Make 16 random measurements of the projected grid. 4 in each quadrant, 50% of which should be in X and 5.1% in Y directions: list meas mements in the space provided below. Compare findings with the inscribed magnifications to determine conformance with para seph 1.4.1.1. Compare suck as Keysfoking suck as
  - a. Calibrated grid of \_\_\_\_\_\_\_\_spacing:
  - b. 3X magrafication
  - c. 6X magnification:

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d. 12X magnification: Parfect

e. 30X magnification: 29.4

4.3.2.2 Resolution Test - Place a Standard High Contrast Air Force Resolution Target in the film gate and apply vacuum clamping. Make 17 random readings of the minimum readable targets discernable at each magnification setting, 4 in each quadrant and one at screen center, and record findings below. The resolutions should conform to those specified in 3.4.1.2.

a. Resolved target at screen center:

3x 36 6x 57 + 12x 71 + 30x 180 +

b. Random resolution readings:

3 X:

6X:

12X:

30X:

4.4.2.3 <u>Light Level Test</u> - Make 9 reading of the Light intensity with the projection lamp at full brilliance and with an open film gate, in each magnification ranges; record findings below. Measurement shall be taken Madel 756 with a calibrated photometer, Weston week or equal a cell in contact with screen on operator's side, facing light source.

Analyze findings for conformance with paragraph 3.4.1.5; does/does not conform.

4.4.2.4 Color Fringing Test - While viewing the screen on axis with an open gate, and with materials in the gate, check for the presence of color fringing at all magnifications. Several personnel should investigate under this test and findings noted below. Consensus; color fringing is/
is not apparent on the screen.

be performed under the operational conditions specified by 4.2.1.

4.4.3.1 Film Degradation - Load the transport with a roil of film that is free from scratches and degradation; i.e., straight from the photo lab and in new condition. Scan and Slew in all directions with sudden stops and changes in direction, and with several starts from vacuum clamped.

Check the film for evidence of film degradation - the film is/is not appreciably degraded. Make statement as to seriousness of degradation, if any, below. None of the known film degracing actions occur - i.e. film does not more against any station any objects - doesn't slip on capatan.

Feel the transport is better than any 17

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The Contraction

4.4.3.2 <u>Scanning Mode Film Drive</u> - Scan several feet of film at 30X at the slowest possible speed. Time the movement of a known length and record the inches per second below. Seperat the above for the fastest scan speed and record the speed below. While in the slow Scan speed, check for perceptable jerking or sporadic movement. There is/
is not appreciable jerking or sporadic movement at slowest scan speed.

Slowest	Scan	speed.	and the state of t	inches/sec	& mon	ナ	adequate
Fastest	Scan	<b>s</b> peed,		inches/s <b>e</b> c.	1		U

- 4.4.4 General Operation While performing the above functional tests, all controls and operations should be thoroughly exercised.

  Sudden and violent changes should be made in various controls and attempts should be made to place controls in electronic conceivable combination to check safety interlocks in the equipment. Make statements in paragraphs below as to proper operation of controls specified:
  - a. Film Loauring, Pase of
  - b. Lateral Drive (3.4.2.5) GOOD quiet and positions drives from center to one extreme in 15 sec production models will do it in 10 sec, necessitates different pitch on lead screw-

Ateral Center, Auto Home - (3.4.3.2) GOOD

positione - Home position not as desired, can be set any where

position not as desired but can and will be set

well with good control in both moder

in hoth modes - Wade several fact revues from slew to sean.

Torque motors

h. Magnification Selector - (3.4.3.6)

j. Illumination Intensity - (3.4.3.5)

k. Rine Focus - (3.4.3.7) Shr-operative at the time of text

4.4.1 General - Personnel conducting tests should note below any comments regarding opinions on workmanship, machine suitability to the

mission, machine weaknesses, machine strengths, etc. Problems encountered in vacuum clamping with thin have film - charges in sequencing necessary to release tention on film so vacuum will pull film flat.

The age shahes with slight tap of front of calment.

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rank

title

Test Performed by:\_\_\_

name